

What is claimed is:

1. A recording and reproducing device comprising:
an extracting unit for extracting audio data and video
5 data in DIF blocks from an incoming DIF stream;

a data reconstruction unit for extracting system data
in DIF blocks from said DIF stream, extracting audio auxiliary
data and reconstructing system data from the extracted data,
as reconstructed system data, by eliminating unnecessary data
10 from the extracted data;

a recording and reproducing unit for recoding and
reproducing said audio data as extracted by said extracting
unit, said video data as extracted by said extracting unit
and said system data as reconstructed by said data
15 reconstruction unit respectively in an audio data area, a video
data area and a system data area, which are separately allocated
in a recording medium, in units of a predetermined data amount;
and

a combining unit for replacing said audio auxiliary data
20 contained in said audio data by said audio auxiliary data
contained in said reconstructed system data when combining
said audio data, said video data and said reconstructed system
data as reproduced by said recording and reproducing unit.

25 2. The recording and reproducing device as claimed in
claim 1 further comprising:

a frame error detecting unit for detecting whether or
not an error occurs in each frame in said DIF stream and
outputting a detection result as error information;

30 an error information embedding unit for embedding the
error information output from said frame error detecting unit
into said reconstructed system data as part thereof;

an error information detecting unit for detecting said
error information from said reconstructed system data as

reproduced by said recording and reproducing unit; and
an error flag rewriting unit for rewriting an frame error
flag in said DIF stream when a frame error is detected by said
error information detecting unit.

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3. The recording and reproducing device as claimed in
claim 1 wherein said recording and reproducing unit stores
and records said reconstructed system data corresponding to
one DIF sequence in said DIF stream in a single recording block
10 of said recording medium corresponding to said predetermined
data amount.

4. A recording and reproducing method comprising:
extracting audio data and video data in DIF blocks from
15 an incoming DIF stream;

extracting system data in DIF blocks from said DIF stream,
extracting audio auxiliary data and reconstructing system data
from the extracted data, as reconstructed system data, by
eliminating unnecessary data from the extracted data;

20 recoding and reproducing said audio data as extracted,
said video data as extracted and said system data as
reconstructed respectively in an audio data area, a video data
area and a system data area, which are separately allocated
in a recording medium, in units of a predetermined data amount;
25 and

replacing said audio auxiliary data contained in said
audio data by said audio auxiliary data contained in said
reconstructed system data when combining said audio data, said
video data and said reconstructed system data as reproduced.

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5. The recording and reproducing method as claimed in
claim 1 further comprising:

detecting whether or not an error occurs in each frame
in said DIF stream and outputting a detection result as error

information;

embedding the error information as output into said reconstructed system data as part thereof;

detecting said error information from said
5 reconstructed system data as reproduced; and

rewriting an frame error flag in said DIF stream when a frame error is detected.

6. The recording and reproducing method as claimed in
10 claim 1 wherein said reconstructed system data corresponding to one DIF sequence in said DIF stream is stored and recorded in a single recording block of said recording medium corresponding to said predetermined data amount.